

ABSTRACT OF THE DISCLOSURE

A thermoplastic polymer having a carbonyl-containing group and a nitrogen-containing 5-membered heterocycle-containing group in side chains, and a composition thereof. The thermoplastic polymer and composition thereof have excellent recycle property in that physical properties do not deteriorate even though formation of crosslinking and dissociation of crosslinking are repeatedly conducted with altering temperature. The thermoplastic polymer and composition thereof are that its crosslinked structure is considerably stable at room temperature, and therefore have considerably high tensile strength. In particular, in the case of bonding to a main chain at 3-position or 4-position of a nitrogen-containing 5-membered heterocycle, intermolecular hydrogen bond is caused, so that a cured product has high mechanical properties.

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